

## PTP1B active protein

PTP1B protein

CATALOG #  
**AAA107757**

APPLICATIONS  
**SDS-Page**

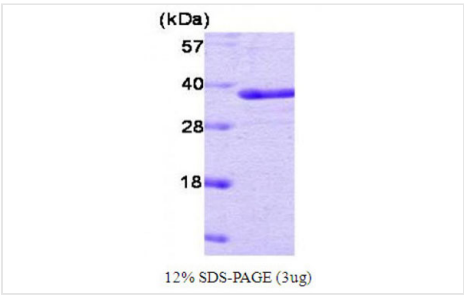
### PRODUCT SYNONYMS

PTP1B; PTP1B protein; PTPN1 protein; PTPB 1 protein; Protein Tyrosine Phosphatase Non Receptor Type-1; PTPB-1; Protein Tyrosine Phosphatase 1B protein; PTPB 1; PTP-1B protein; EC 3.1.3.48 protein; PTPB-1 protein; Protein tyrosine phosphatase non-receptor type 1 protein; Protein-tyrosine phosphatase1B protein; Tyrosine-protein phosphatase non-receptor type 1 protein; PTP1B active protein

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification                              | > 95% pure                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                      | 0.2 um filtered solution supplied in 25 mM Tris-HCl, pH7.5, containing 2 mM beta-mercaptoethanol, 1 mM EDTA, 1mM DTT, and 20% glycerol.                                                                                                                                                                                                                                       |
| Concentration                                    | 1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                       |
| Sequence                                         | MEMEKEFEQI DKSGSWAAIY QDIRHEASDF PCRVAKLPKN KNRNRYRDVS PFDHSRIKLH QEDNDYINAS<br>LIKMEEAQRS YILTQGPLPN TCGHFWEMVW EQKSRGVVML NRVMEKGSLK CAQYWPQKEE KEMIFEDTNL<br>KLTLISEDIK SYITVRQLEL ENLTTQETRE ILHFHYTTWP DFGVPESPAS FLNFLFKVRE SGSLSPEHGP<br>VVVHCSAGIG RSGTFCLADT CLLMDKRRD PSSVDIKKVL LEMRKFRMGL IQTADQLRFS YLAVIEGAKF<br>IMGDSSVQDQ WKELSHEDLE PPPEHI PPPP RPPKRILEPH N |
| Sequence Length                                  | 433                                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for PTP1B active protein | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                      |
| Species                                          | Human                                                                                                                                                                                                                                                                                                                                                                         |
| Protein Type                                     | Recombinant                                                                                                                                                                                                                                                                                                                                                                   |
| Biological Significance                          | The protein coding region of the catalytic domain of PTP-1B (amino acids 1-321) was cloned into an E Coli expression vector. The catalytic domain of PTP-1B was overexpressed in E Coli as a soluble protein, and it was purified by conventional column chromatographic techniques.                                                                                          |
| Bioactivity                                      | 10,000units/mg of PTP1B                                                                                                                                                                                                                                                                                                                                                       |
| Biohazard                                        | Use standard laboratory proceduress when handling this product.                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage                          | Store at 4°C for short term storage. Store at -20°C to -80°C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                        |

IMAGES



SDS-PAGE  
Figure annotation denotes ug of protein loaded and % gel used.

ADDITIONAL INFORMATION

|                                                      |                                          |
|------------------------------------------------------|------------------------------------------|
| Related Product Information for PTP1B active protein | Purified recombinant Human PTP1B protein |
| Product Categories/Family for PTP1B active protein   | Signal Transduction                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| NCBI GI #                        | 169154359                                         |
| NCBI GeneID                      | 30081                                             |
| UniProt Accession #              | B0S5X5                                            |
| Molecular Weight                 | 37.3 kDa (321 aa)                                 |
| NCBI Official Full Name          | protein tyrosine phosphatase 1b                   |
| NCBI Official Synonym Full Names | protein tyrosine phosphatase, non-receptor type 1 |
| NCBI Official Symbol             | ptpn1                                             |
| NCBI Official Synonym Symbols    | ptp1b; wu:fk54h03                                 |
| NCBI Protein Information         | tyrosine-protein phosphatase non-receptor type 1  |
| UniProt Protein Name             | Tyrosine-protein phosphatase non-receptor type    |
| UniProt Gene Name                | <b>ptpn1</b>                                      |
| UniProt Entry Name               | B0S5X5_DANRE                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/active-protein/ptp1b/107757>